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AMENDMENTS TO THE CLAIMS

(previously presented) A system, comprising: 1.

an electronic entertainment system including at least one

source of audio signals, the audio signals corresponding to at

least one audio channel; and

a directed acoustic sound system including:

modulated signal generator configured to generate

ultrasonic carrier signal modulated with at least one of the audio

signals;

amplifier configured to amplify the modulated a driver

ultrasonic carrier signal; and

directional loudspeaker, the directional at least one

loudspeaker including at least one acoustic transducer configured

to receive the modulated ultrasonic carrier signal amplified by

the driver amplifier, and to project a sound beam representing the

modulated ultrasonic carrier signal through a propagation medium

along a pre-selected path to reproduce the at least one audio

signal along at least a portion of the path.

2. (original) The system of claim 1 wherein the audio signals

correspond to a plurality of audio channels, wherein the at least

one directional loudspeaker comprises a plurality of directional

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loudspeakers, and wherein a separate audio channel is provided for

each directional loudspeaker.

3. (original) The system of claim 1 wherein the audio signals

correspond to a plurality of audio channels, and wherein the

modulated signal generator is configured to combine the plurality

of audio channels and to generate the ultrasonic carrier signal

modulated with the combined audio channels.

4. (previously presented) The system of claim 1 wherein the

audio signals correspond to a plurality of audio channels, the

plurality of audio channels being selected from the

consisting of a first audio channel corresponding to a first

location in front of a user of the system, a second audio channel

corresponding to a second location in back of the system user, a

third audio channel corresponding to a third location to the left

of the system user, and a fourth audio channel corresponding to a

fourth location to the right of the system user, and wherein the

modulated signal generator is configured to combine the plurality

of audio channels, and to generate the ultrasonic carrier signal

modulated with the combined audio channels.

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5. (currently amended) The system of claim 1:

wherein the directional loudspeaker is a parametric array;

wherein the system further includes a parametric array

processor configured to control the parametric array, and at least

one sensor configured to detect a distance from the directional

loudspeaker to a user of the system or to detect a position of the

user relative to the system; and

wherein the parametric array processor is configured to allow

at least one parameter thereof to be adjusted based upon one or

more of the detected distance from the directional loudspeaker to

the user of the system, and the detected position of the user

relative to the system.

6. (currently amended) The system of claim 5 wherein the

modulated signal generator is configured to generate an ultrasonic

signal having characteristics based at least in part on the

detected distance to the system user or the detected position of

the system user.

7. (original) The system of claim 5 wherein the sensor comprises

a device selected from the group consisting of an optical ranging

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device, an acoustic ranging device, and an infrared ranging

device.

8. (original) The system of claim 1 wherein the acoustic

transducer is selected from the group consisting of

piezoelectric transducer, an electrostatic transducer, a PVDF film

transducer, and an electrostrictive film transducer.

9. (original) The system of claim 1 further including a delay

circuit configured to apply a relative phase shift across a

plurality of frequencies of the modulated ultrasonic carrier

signal to steer, focus, or shape the sound beam projected by the

directional loudspeaker.

(previously presented) The system of claim 1: 10.

wherein the electronic entertainment system is selected from

the group consisting of a television, a radio, an audio tape

player, a phonograph, a compact disk player, a digital video disk

player, a laser disk player, a video game, a desktop computer, a

laptop computer, and an MP3 system; and

wherein the directional loudspeaker is configured to direct

the sound beam along the pre-selected path toward a user of the

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electronic entertainment system, thereby preventing individuals

other than the electronic entertainment system user from hearing

sound produced by the electronic entertainment system.

11. (currently amended) The system of claim 1:

further including a second amplifier and at least one non-

directional loudspeaker, the second amplifier being configured to

amplify one or more audio signals corresponding to at least one of

the audio channels and to drive at least one non-directional

loudspeaker;

wherein the modulated signal generator is connected in-line

with the second amplifier;

wherein the modulated signal generator is configured to

selectably generate the ultrasonic carrier signal modulated with

the at least one of the audio signals; and

wherein the second amplifier is configured to selectably

amplify the one or more audio signals, thereby allowing the

directional loudspeaker and the non-directional loudspeaker to

selectably reproduce the audio signals.

12. (canceled)

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13. (original) The system of claim 11 wherein the modulated

signal generator is configured to receive the at least one audio

channel and to provide a representation of the at least one audio

channel to the second amplifier.

14. (canceled)

15. (original) The system of claim 1 wherein the modulated signal

generator includes an independent volume control.

(original) The system of claim 1 further including a remote 16.

signal receiver and a remote control device configured to generate

remote signals in response to a user input, wherein the remote

signal receiver is configured to receive the remote signals and

generate control signals for controlling a system characteristic

selected from the group consisting of a volume setting, a tone

setting, and an output switch selection.

17. (original) The system of claim 16 wherein the remote control

device is selected from the group consisting of an optical remote

control device, an acoustic remote control device, an infrared

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remote control device, and a radio frequency remote control

device.

18. (original) The system of claim 1 further including a fan

configured to cool the system.

19. (original) The system of claim 18 wherein the fan is

activated automatically when a system temperature exceeds a

predetermined level.

20. (previously presented) The system of claim 1 further

including a swing-arm assembly configured to mount the directional

loudspeaker to a ceiling, a floor, or a wall, and to direct of the

projected sound beam along the pre-selected path.

21. (previously presented) system of claim 1 further The

including a clamp assembly configured to mount the directional

loudspeaker to a ceiling, a floor, or a wall, and to direct of the

projected sound beam along the pre-selected path.

22. (previously presented) A method of reproducing audio signals,

comprising the steps of:

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providing at least one audio signal by at least one audio

source included in an electronic entertainment system, the at

least one audio signal corresponding to at least one audio

channel;

generating an ultrasonic carrier signal modulated with the at

least one audio signal by a modulated signal generator included in

a directed acoustic sound system;

amplifying the modulated ultrasonic carrier signal by a

driver amplifier included in the directed acoustic sound system;

receiving, by at least one directional loudspeaker included

in the directed acoustic sound system, the modulated ultrasonic

carrier signal amplified by the driver amplifier , the at least

one directional loudspeaker including at least one acoustic

transducer; and

projecting, by the at least one directional loudspeaker, a

sound beam representing the modulated ultrasonic carrier signal

through a propagation medium along a pre-selected path to

reproduce the at least one audio signal along at least a portion

of the path.

23. (original) The method of claim 22 wherein the audio signals

correspond to a plurality of audio channels, wherein the at least

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one directional loudspeaker comprises a plurality of directional

loudspeakers, and further including the step of providing a

separate audio channel for each directional loudspeaker.

24. (original) The method of claim 22 wherein the audio signals

correspond to a plurality of audio channels, and further including

the steps of combining the plurality of audio channels by the

modulated signal generator, and generating the ultrasonic carrier

signal modulated with the combined audio channels by the modulated

signal generator.

25. (previously presented) The method of claim 22:

wherein the audio signals correspond to a plurality of audio

channels, the plurality of audio channels being selected from the

group consisting of a first audio channel corresponding to a first

location in front of a user of the system, a second audio channel

corresponding to a second location in back of the system user, a

third audio channel corresponding to a third location to the left

of the system user, and a fourth audio channel corresponding to a

fourth location to the right of the system user; and

wherein the method further includes the steps of combining,

the modulated signal generator, the plurality of by

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channels, and generating the ultrasonic carrier signal modulated

with the combined audio channels.

26. (currently amended) The method of claim 22:

wherein the directional loudspeaker is a parametric array

controlled by a parametric array processor; and

wherein the method further includes the steps of:

detecting a distance from the directional loudspeaker to a

user of the system or detecting a position of the user relative to

the system by at least one sensor; and

adjusting at least one parameter of the parametric array

processor based upon one or more of the detected distance from the

directional loudspeaker to the user of the system, and the

detected position of the user relative to the system.

27. (currently amended) The method of claim 26 wherein the

generating step includes generating an ultrasonic signal having

characteristics based at least in part on the detected distance to

the system user or the user position.

28. The method of claim 26 wherein the sensor (original)

comprises a device selected from the group consisting of an

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optical ranging device, an acoustic ranging device, and an

infrared ranging device.

29. (original) The method of claim 22 wherein the acoustic

transducer is selected from the group consisting of

piezoelectric transducer, an electrostatic transducer, a PVDF film

transducer, and an electrostrictive film transducer.

30. (original) The method of claim 22 further including the step

applying a relative phase shift across a plurality of

frequencies of the modulated ultrasonic carrier signal by a delay

circuit, thereby steering, focusing, or shaping the sound beam

projected by the directional loudspeaker.

(previously presented) The method of claim 22: 31.

wherein the electronic entertainment system is selected from

the group consisting of a television, a radio, an audio tape

player, a phonograph, a compact disk player, a digital video disk

player, a laser disk player, a video game, a desktop computer, a

laptop computer, and an MP3 system; and

wherein the method further includes the step of directing the

sound beam along the pre-selected path toward a user of the

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electronic entertainment system, thereby preventing individuals

other than the electronic entertainment system user from hearing

sound produced by the electronic entertainment system.

32. (currently amended) The method of claim 22 further including

the step steps of:

amplifying one or more audio signals corresponding to at

least one of the audio channels by a second amplifier,

wherein the modulated signal generator is connected in-line

with the second amplifier; and

driving at least one non-directional loudspeaker by the

second amplifier;

selectably generating the ultrasonic carrier signal modulated

with the at least one of the audio signals by the modulated signal

generator; and

selectably amplifying the one or more audio signals by the

second amplifier,

thereby allowing the directional loudspeaker and the non-

directional loudspeaker to selectably reproduce the audio signals.

33. (canceled)

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34. (original) The method of claim 32 further including the steps

of receiving the at least one audio channel by the modulated

signal generator, and providing a representation of the at least

one audio channel to the second amplifier by the modulated signal

generator.

35. (canceled)

36. (previously presented) A system, comprising:

a telephone system including a receiver configured to receive

information representative of at least one audio signal; and

a directed acoustic sound system including:

modulated signal generator configured to generate

ultrasonic carrier signal modulated with the at least one audio

signal;

amplifier configured to amplify the modulated a driver

ultrasonic carrier signal; and

at least one directional loudspeaker, the directional

loudspeaker including at least one acoustic transducer configured

to receive the modulated ultrasonic carrier signal amplified by

the driver amplifier, and to project a sound beam representing the

modulated ultrasonic carrier signal through a propagation medium

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along a pre-selected path to reproduce the at least one audio

signal along at least a portion of the path.

37. (currently amended) The system of claim 36:

further including a second amplifier and at least one non-

directional speaker, the modulated signal generator being

connected in-line with the second amplifier, and the second

amplifier being configured to amplify at least one audio signal

and to drive the non-directional loudspeaker;

wherein the modulated signal generator is configured to

selectably generate the ultrasonic carrier signal modulated with

the at least one of the audio signals; and

wherein the second amplifier is configured to selectably

amplify the one or more audio signals,

thereby allowing the directional loudspeaker and the non-

directional loudspeaker to selectably reproduce the audio signals.

38. (canceled)

39. (original) The system of claim 37 wherein the modulated

signal generator is configured to receive the at least one audio

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channel and to provide a representation of the at least one audio

channel to the second amplifier.

40. (canceled)

41. (previously presented) A method of operating a telephone

system, comprising the steps of:

receiving information representative of at least one audio

signal by a receiver included in a telephone system;

generating an ultrasonic carrier signal modulated with the at

least one audio signal by a modulated signal generator included in

a directed acoustic sound system;

amplifying the modulated ultrasonic carrier signal by a

driver amplifier included in the directed acoustic sound system;

receiving the modulated ultrasonic carrier signal amplified

by the driver amplifier by at least one directional loudspeaker

included in the directed acoustic sound system, the at least one

directional loudspeaker including at least one acoustic

transducer; and

projecting a sound beam representing the modulated ultrasonic

carrier signal through a propagation medium along a pre-selected

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path by the directional loudspeaker, thereby reproducing the at

least one audio signal along at least a portion of the path.

42. (currently amended) The method of claim 41 further including

the steps of:

amplifying at least one audio signal by a second amplifier,

the modulated signal generator being connected in-line with the

second amplifier; and

driving at least one non-directional loudspeaker by the

second amplifier;

selectably generating the ultrasonic carrier signal modulated

with the at least one of the audio signals by the modulated signal

generator; and

selectably amplifying the one or more audio signals by the

second amplifier, thereby allowing the directional loudspeaker and

the non-directional loudspeaker to selectably reproduce the audio

signals.

43. (canceled)

44. (original) The method of claim 42 further including the steps

of receiving the at least one audio channel by modulated signal

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generator, and providing a representation of the at least one

audio channel to the second amplifier by the modulated signal

generator.

45. (canceled)

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